

In the Claims:

1. (Original) A method of purifying reduced coenzyme Q₁₀ which comprises washing crystals and/or oil of reduced coenzyme Q₁₀ with a water-soluble organic solvent or a mixed solvent composed of a water-soluble organic solvent and water to thereby remove a water-soluble impurity from the crystals and/or oil of reduced coenzyme Q₁₀.

2. (Original) The method of purifying reduced coenzyme Q₁₀ according to Claim 1,

wherein the washing of the crystals and/or oil of reduced coenzyme Q₁₀ is carried out in a state of dispersion of the crystals and/or oil of reduced coenzyme Q₁₀ in the water-soluble organic solvent or the mixed solvent composed of the water-soluble organic solvent and water.

3. (Original) The method of purifying reduced coenzyme Q₁₀ according to Claim 2,

wherein the dispersion is caused in a state of forced flowing.

4. (Previously Presented) The method of purifying reduced coenzyme Q₁₀ according to Claim 1,

wherein the water-soluble organic solvent comprises at least one species selected from among alcohols, ketones, ethers, and nitriles.

5. (Original) The method of purifying reduced coenzyme Q₁₀ according to Claim 4,

wherein the water-soluble organic solvent is ethanol.

6. (Previously Presented) The method of purifying reduced coenzyme Q₁₀ according to Claim 1,

wherein the washing is carried out with a mixed solvent composed of an organic solvent and water.

7. (Original) The method of purifying reduced coenzyme Q₁₀ according to Claim 6,

wherein the washing is carried out with a mixed solvent having a water-soluble organic solvent content of not less than 5 w/w%.

8. (Previously Presented) The method of purifying reduced coenzyme Q₁₀ according to Claim 1,

wherein the water-soluble impurity is a reducing agent used for converting oxidized coenzyme Q₁₀ into reduced coenzyme Q₁₀ and/or an impurity derived from a reducing agent.

9. (Original) The method of purifying reduced coenzyme Q₁₀ according to Claim 8,

wherein the reducing agent and/or the impurity derived from a reducing agent are/is hyposulfurous acid or a salt thereof and/or an impurity derived from hyposulfurous acid or a salt thereof.

10. (Original) The method of purifying reduced coenzyme Q₁₀ according to Claim 8,

wherein the reducing agent and/or the impurity derived from a reducing agent are/is ascorbic acid or a related compound thereof and/or an impurity derived from ascorbic acid or a related compound thereof.

11. (Original) The method of purifying reduced coenzyme Q₁₀ according to Claim 10,

wherein the impurity derived from ascorbic acid or a related compound thereof is oxalic acid.

12. (Previously Presented) The method of purifying reduced coenzyme Q₁₀ according to Claim 4,

wherein the concentration of reduced coenzyme Q₁₀ during washing is not higher than 30 w/w% as expressed in terms of the weight of reduced coenzyme Q₁₀ relative to the weight of the solvent at the time of completion of the washing.

13. (Previously Presented) The method of purifying reduced coenzyme Q₁₀ according to Claim 1,
wherein reduced coenzyme Q₁₀ occurs as a form of crystals.
14. (Original) The method of purifying reduced coenzyme Q₁₀ according to Claim 13,
wherein the washing temperature is not higher than 50°C.
15. (Previously Presented) The method of purifying reduced coenzyme Q₁₀ according to Claim 1,
wherein reduced coenzyme Q₁₀ occurs as a form of oil and the washing temperature is not lower than the melting temperature of reduced coenzyme Q₁₀.
16. (Original) The method of purifying reduced coenzyme Q₁₀ according to Claim 15,
wherein the washing temperature is not lower than 40°C.
17. (Previously Presented) The method of purifying reduced coenzyme Q₁₀ according to Claim 15,
wherein crystals of reduced coenzyme Q₁₀ is recovered by cooling the solution obtainable after impurity removal from the oil of reduced coenzyme Q₁₀.
18. (Previously Presented) The method of purifying reduced coenzyme Q₁₀ according to Claim 15,
wherein crystals of reduced coenzyme Q₁₀ is recovered by contacting seed crystals to oil of reduced coenzyme Q₁₀ obtainable after impurity removal from said oil.
19. (Previously Presented) The method of purifying reduced coenzyme Q₁₀ according to Claim 1,
wherein reduced coenzyme Q₁₀ is purified in a deoxygenated atmosphere.

20. (New) A process of purifying reduced coenzyme Q₁₀ comprising the steps of:

washing one or more of crystals of reduced coenzyme Q₁₀ and oil of reduced Q₁₀ with a water-soluble organic solvent or a mixed solvent composed of a water-soluble organic solvent and water;

removing a water-soluble impurity from the crystals and/or the oil into the water-soluble organic solvent or the mixed solvent composed of a water-soluble organic solvent and water; and

completing the purifying process without using a chromatographic purification step.